

# NGDA Dataset Report

**Official NGDA Title:** Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27

**Metadata Record Title:** Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27

**A-16 NGDA Theme:** Cadastre

## Executive NGDA Theme Champion(s):

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## Metadata:

**Registration Status:** Complete

**Registered on** 3/8/2015

**GeoPlatform Link\*:** <https://www.geoplatform.gov/node/243/9e4ffe42-089a-4f39-b96b-8bea357110bd>

**Data.gov Metadata Link\*:** <http://catalog.data.gov/harvest/object/05c780da-5a5d-4f28-a9a8-98aad2bbe515/html>

\*If the metadata has been updated and reharvested after publication of this report, the link may no longer be valid. The dataset may be searched for manually in Data.gov or GeoPlatform.gov.

# NGDA Lifecycle Maturity Assessment (LMA) Report

## Time Frame:

Baseline assessment responses include dataset activities from 1998 to 2015.

## LMA Submission:

**Status:** Complete

**Date:** 9/21/2015

**Extension Requested:** No

## LMA Reviewer(s):

**Supervisor:** Did not review

**Theme Lead:** Tony.Lavoi@noaa.gov

**Executive Champion:** Did not review

**SAOGI\*:** Did not review

**Other:** Did not review

## LMA Verifier:

**Name:** Tony Lavoi

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## Attachments:

To get access to any attachments referenced in the report, email the LMA Help Desk at [NGDA\\_LMA\\_help@fgdc.gov](mailto:NGDA_LMA_help@fgdc.gov). Please use the subject "Dataset Report Attachment(s)" and indicate the associated official NGDA title.

\*Senior Agency Official for Geospatial Information (SAOGI)

## Lifecycle Maturity Assessment (LMA) Summary

### Overall Maturity:

**Managed; Predictable**

General Questions: 82%

**Mature; Consistent**

Stage 1 - Define/Plan: 36%

**Transition; Transformation**

Stage 2 - Inventory/Evaluate: 100%

**Optimized; Established**

Stage 3 - Obtain: 100%

**Optimized; Established**

Stage 4 - Access: 100%

**Optimized; Established**

Stage 5 - Maintain: 28%

**Planned; Initial Development**

Stage 6 - Use/Evaluate: 66%

**Managed; Predictable**

Stage 7 - Archive: 33%

**Transition; Transformation**

### NGDA Dataset Maturity Definitions:

How To Calculate Maturity: [https://www.geoplatform.gov/sites/default/files/How\\_to\\_Calculate\\_Maturity.pdf](https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf)

Maturity	Maturity Characteristics for All Lifecycle Stages
Optimized; Established Rank = 5	Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.
Mature; Consistent Rank = 4	Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used widely by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a recurring basis. The dataset is well managed in relation to the approved lifecycle.
Managed; Predictable Rank = 3	Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.
Transition; Transformation Rank = 2	Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.
Planned; Initial Development Rank = 1	Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to consider secondary uses, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.
No Activity Rank = no activity	Dataset meets project or local business needs of the primary owner, secondary or additional uses or users were not considered, not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.

## General Questions for All Stages

1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?

**Answer:** Funding support is part of agency budget on a recurring basis, funding is consistent and tied to business processes, and supports all lifecycle stages.

**Justification Comment:**

**Attachment(s):** 0

The Outer Continental Shelf (OCS) Official Protraction Diagram (OPD) and Lease Map (LM) display the blocks used for leasing purposes. Leasing of the energy resources (i.e. oil, gas, minerals, wind, wave) in federal waters cannot occur unless OPDs and LMs have been generated for the area of interest. Because the OPD and LM is so essential to the needs of the Bureau of Ocean Energy Management (BOEM), the duties associated with creating these maps are included in the Position Descriptions for BOEM Cartographers. These same duties are also described as critical elements in the Employee Performance Appraisal Plans for BOEM Cartographers.

2) Is there a process in place to ensure that open government and transparency guidelines are followed in all lifecycle stages for this dataset?

**Answer:** Process is published as appropriate with respect to sensitivity requirements, process is transparent, published appropriately.

**Justification Comment:**

**Attachment(s):** 0

BOEM mapping products such as Official Protraction Diagrams, Lease Maps, and Supplemental Official Block Diagrams (SOBDs) reflect the location of the Submerged Lands Act (SLA) Boundary and the Section 8(g) Revenue Zone. The natural processes of coastal accretion and avulsion cause changes to the baseline which will periodically trigger the need to revise the SLA Boundary and the 8(g) Zone Boundary. BOEM will publish a Notice in the Federal Register that announces the availability (for download) of the revised maps on a specific BOEM web page. The Notice will describe the specific maps that were revised, as well as the reason why the maps were revised.

Only those OPDs and LMs adjacent to the coastline reflect the SLA and 8(g) Zone boundaries. It is these OPDs and LMs that are most likely to require updates and/or revisions.

3) Are there processes and tools in place so that staff are sufficiently knowledgeable to ensure a continuity of the dataset for all stages of the lifecycle, especially during staffing transitions?

**Answer:** Processes and tools to ensure dataset continuity are under development.

**Justification Comment:**

**Attachment(s):** 0

OPDs for all of the BOEM Regions (Gulf of Mexico, Alaska, Pacific, Atlantic/Caribbean) were generated using mapping software that was developed in-house by the Minerals Management Service, the predecessor bureau of BOEM. The LM product currently exists only for the Gulf of Mexico Region (GOMR). Starting in 2016, the BOEM Mapping and Boundary Branch (MBB) will be using the Esri, Inc. ArcGIS suite of mapping software to generate OPDs, LMs, and SOBDs. Standard Operating Procedures (SOPs) will be written and implemented to ensure the process is accurate, efficient, and continuous.

## STAGE 1 - Define/Plan

4) Are user and business requirements defined and formalized?

**Answer:** A recurring process exists for gathering partners/ stakeholders requirements is in place and is in the beginning stages of implementation.

**Justification Comment:**

**Attachment(s):** 0

The primary customers of OPDs, LMs, and SOBDs are energy industry companies. Oil and gas companies have historically been the biggest users of these BOEM maps. Coastal state governments

are also known to make use of OPDs, LMs, and SOBDs, as the SLA and 8(g) Zone boundaries are shown on them. A redesign of the format for these products is being implemented, primarily so that the maps can be used for other purposes. The Esri Inc. Oceans Basemap will be used for all future OPDs and LMs. This will provide an image of the actual ocean floor, which will make the maps more intuitive. This change was brought about because of comments from users.

5) How are partners/stakeholders involved in the requirements collection process?

**Answer:** Ad hoc process is used for involving Partners/stakeholders in identifying requirements.

**Justification Comment:**

**Attachment(s):** 0

Engaging with users of BOEM OPDs, LMs, and SOBDs has occurred at meetings with industry and coastal state governments. Comments were collected on an informal basis. Presentations given by cartographers from BOEM at mapping conferences have also been events where comments and suggestions about these mapping products have been solicited and gathered.

6) Is there a quality assurance process for the dataset?

**Answer:** Process under development.

**Justification Comment:**

**Attachment(s):** 0

Quality control measures will be included in a future Standard Operating Procedure (SOP) document for creation of OPDs, LMs, and SOBDs.

7) Is there a process to evaluate the sensitivity, privacy, and confidentiality of this dataset?

**Answer:** Process to define under development.

**Justification Comment:**

**Attachment(s):** 0

Process to evaluate the sensitivity, privacy, and confidentiality of OPDs, LMs, and SOBDs will be included in a future SOP for creation of these mapping products.

8) Are defined data standards used in collecting, processing, and/or rendering the data?

**Answer:** Standards being researched and/or under development.

**Justification Comment:**

**Attachment(s):** 0

While BOEM has defined measures for data precision, there are not yet formal data standards.

## STAGE 2 - Inventory/Evaluate

9) Is there a process for determining if data necessary to meet requirements already exist from other sources (either within or outside the agency) before collecting or acquiring new data?

**Answer:** Process for determining appropriate data is being reused fully implemented, reviewed, and updated on a regular basis.

**Justification Comment:**

**Attachment(s):** 0

BOEM consults regularly with NOAA and USGS for coastline data that could contribute to the development of the SLA Boundary, which is shown on some OPDs and LMs. BOEM is the only bureau that creates OPDs, LMs, and SOBDs. When these mapping products have been generated, the dataset is recognized as authoritative.

## STAGE 3 - Obtain

10) Is there a process for obtaining data in relation to this dataset?

**Answer:** Process is fully implemented, reviewed and updated on a regular basis.

**Justification Comment:**

**Attachment(s):** 0

BOEM consults regularly with NOAA and USGS for coastline data that could contribute to the development of the SLA Boundary, which is shown on some OPDs and LMs. Future OPDs and LMs will use the Esri, Inc. Oceans Basemap. When the OPDs and LMs have been generated, the dataset is recognized as authoritative.

**11)** Is the metadata in a FGDC endorsed geospatial metadata standard?

**Answer:** Metadata is available in a format endorsed by the FGDC, it fully describes the dataset and provides all the information required to make the dataset discoverable, accessible, and usable.

**Justification Comment:**

**Attachment(s):** 0

Metadata for OPDs and LMs is available for download on <http://www.metadata.boem.gov/geospatial/>

**12)** How complete is the geographic coverage as defined in the requirements for the dataset?

**Part 1 Answer:** Business requirements for cyclic updates identified and a process is in place.

**Part 2 Answer:** Dataset has presently attained the greatest geographic coverage as defined by the current requirements or roughly 100%.

**Justification Comment:**

**Attachment(s):** 0

Dataset is 100% complete per current requirement.

## STAGE 4 - Access

**13)** Do you have a process for providing users access to the data in an open digital machine readable format?

**Answer:** User access process is fully implemented, data is available, process is reviewed and updated on a recurring basis.

**Justification Comment:**

**Attachment(s):** 0

The OPDs, LMs, and SOBDs are in PDF format, and available for download on <http://www.boem.gov/Maps-and-GIS-Data/>

## STAGE 5 - Maintain

**14)** Is there a maintenance process for updating and storing the dataset?

**Answer:** Dataset maintenance process is under development.

**Justification Comment:**

**Attachment(s):** 0

The maintenance process for this dataset will be included in a future Standard Operating Procedure (SOP) document for creation of OPDs, LMs, and SOBDs.

**15)** Is there an error correction process as part of dataset maintenance?

**Answer:** Error correction process under development.

**Justification Comment:**

**Attachment(s):** 0

Error correction process will be included in the SOP document.

## STAGE 6 - Use/Evaluate

**16)** Is there a process to determine if the dataset meets user needs?

**Answer:** Process is being developed to determine if user needs are being addressed or met.

**Justification Comment:**

**Attachment(s):** 0

When the new format for OPDs, LMs, and SOBDs is implemented, BOEM will install a "Tell us what you think" application on the website, adjacent to where these mapping products can be downloaded.

**17)** Is there a process to provide users information on how to access and properly use the dataset?

**Answer:** Process is fully implemented supporting access and proper use, process is reviewed on a recurring basis.

**Justification Comment:**

**Attachment(s):** 0

Access to the data is made available on <http://www.boem.gov/Maps-and-GIS-Data/> Proper use of the data is described in the metadata.

**18)** Are the business processes and management practices assessed to meet changing technology?

**Answer:** Assessment process implementation started for taking advantage of changing technology.

**Justification Comment:**

**Attachment(s):** 0

The OPDs, LMs, and SOBDS for all of the BOEM Regions (Alaska, Pacific, Gulf of Mexico, Atlantic/Caribbean) were generated using mapping software that was developed in-house by the Minerals Management Service, the predecessor bureau of BOEM. The LM product currently exists only for the GOMR. Starting in 2016, the BOEM Mapping and Boundary Branch (MBB) will be using the Esri, Inc. ArcGIS suite of mapping software to generate these mapping products. Standard Operating Procedures (SOPs) will be written and implemented to ensure the process is accurate and efficient.

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## **STAGE 7 - Archive**

**19)** Is there an archiving process for the dataset?

**Answer:** Archival and/or disposition processes are in development.

**Justification Comment:**

**Attachment(s):** 0

BOEM is transferring the original nautical charts, topographic maps, and hydrographic surveys (approximately 700 total) that were used as the source for the SLA Boundary datasets to NARA for permanent storage. A similar process will be documented for transfer of the digital OPDs, LMs, and SOBDS that have been superseded or otherwise made null and void.